

## OUTPUT CONTROL DEVICE FOR FUEL CELL POWER GENERATING SYSTEM

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### Abstract of JP4058463

PURPOSE: To hold the proper utilization factor of reaction gas and stabilize the power generation of a fuel cell without impairing load responsiveness by collating the product of the current and voltage on a characteristic curve and a power command value to determine the target current value, and controlling the feed quantities of fuel gas and reaction air based on the target current value. CONSTITUTION: The feed quantity of reaction gas to a fuel cell 1 is controlled by a target current estimation section 11 which receives the detected signals of detectors 14, 15 of the output current If and output voltage Vf of the fuel cell 1 and outputs the target current estimated value Ifb corresponding to a power command 20 and a reaction gas quantity calculation section 12 which receives the command value of the target current Ifb, calculates the reaction gas quantity corresponding to it, and outputs command signals 14F, 15A to an auxiliary machine controller. A response correcting circuit 13 delays the rising time and trailing time of the square-wave power command 20 to feed it to a controller 8, and the response speed of a power converter 7 is delayed to the response speed of a fuel reformer to control the output.

